



# County of San Diego

## DEPARTMENT OF ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS DIVISION

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## DISCLOSURE OF HAZARDOUS MATERIALS INFORMATION BULLETIN

The County of San Diego Board of Supervisors approved changes to the San Diego County Code of Regulatory Ordinances (County Code) that changed the requirements for the disclosure of hazardous materials, which became effective June 1996. The changes were the result of a Sunset Commission recommendation to correct the over breadth of the County's hazardous materials reporting requirements while preserving the perceived benefits in hazardous materials response planning and the community's right-to-know. The ordinance affects the disclosure of **highly toxic gases, reproductive toxins and carcinogens**.

### REQUIREMENTS UNDER SECTION 68.1113 OF THE COUNTY CODE

- ◆ Businesses which handle hazardous materials in amounts greater than or equal to 55 gallons, 500 pounds or 200 cubic feet at standard temperature and pressure remain subject to the chemical inventory disclosure and Business Plan requirements of the California Health and Safety Code, Chapter 6.95.
- ◆ Businesses which handle highly toxic compressed gases (compressed gases with a Threshold Limit Value of 10 parts per million or less as referenced by the ACGIH) shall disclose these gases as part of their chemical inventory in any quantity and prepare a Business Plan (see attached Fact Sheet and list of TLV gases).
- ◆ Businesses that are subject to the chemical inventory disclosure and Business Plan requirements as noted above, that handle carcinogens and reproductive toxins in small amounts (**amounts below** the California disclosure requirements of 55 gallons, 500 pounds or 200 cubic feet of gas at standard temperature and pressure), are not required to disclose these carcinogens and reproductive toxins as chemical inventory. Instead, they are required only to submit to the HMD, a list of each of these materials that are in small amounts **handled during the previous year**. The list shall be based on the amount handled at any one time during the previous reporting year and be in ranges based on volume or weight (see sample list format attached).

- ◆ The list that is required for the smaller amounts of carcinogens and reproductive toxins must be renewed each year pursuant to the ordinance.
- ◆ A carcinogen or reproductive toxins, for the purposes of this ordinance, are those listed by Prop 65 pursuant to the California Health and Safety Code Section 25249.8. The Prop 65 list is available on the internet at [www.oehha.org/prop65/899not.html](http://www.oehha.org/prop65/899not.html)
- ◆ The following hazardous materials have been **exempted** from disclosure in San Diego County: aflotoxins, alcoholic beverages, betel quid from tobacco, bracken fern, diesel engine exhaust, gasoline engine exhaust, tobacco smoke, aspirin, cocaine, anabolic steroids, oral contraceptives, saccharin, and tobacco.
- ◆ The following carcinogens are **not to be listed** in small amounts; however, they shall be disclosed as chemical inventory if they are handled in amounts greater than or equal to 55 gallons, 500 pounds or 200 cubic feet (standard temperature and pressure): gasoline, crystalline silica, soots, tars and mineral oil, and residual (heavy) fuel oils.

#### **IMPLEMENTATION OF THE ORDINANCE BY THE HMD**

- ◆ Effective June 1996, permit fees will be deleted for small amounts of carcinogens and reproductive toxins. These chemicals are not billed.
- ◆ The "list" required from those businesses that handle small amounts of carcinogens and reproductive toxins will be public record. The list will be maintained in the HMD main business file as public record for first responders and community-right-to-know.
- ◆ A toxic compressed gas will be a billable inventory item if it is required to be inventoried pursuant to the State inventory disclosure or the County Ordinance requirements.

**San Diego County Department of Environmental Health  
Hazardous Materials Division (HMD)**

**Toxic Compressed Gas FAQ Sheet**

Section 68.1113, (b) was added to the San Diego County Code in May of 1996. This section requires any business which handles compressed gases with a Threshold Limit Value of 10 parts per million or less to report these gases as part of their chemical inventory, in any quantity, and to prepare a business plan in conformance with Chapter 6.95 (commencing with section 25500) of Division 20 of the Health and Safety Code. This FAQ sheet has been developed to provide guidance to HMD Field staff and the regulated businesses within San Diego County.

***1. What reference source will be applied by the HMD for determining which toxic compressed gases fall within the jurisdiction of the County Ordinance?***

The HMD will use the Threshold Limit Values (TLVs) for Chemical Substances and Physical Agents and Biological Exposure Indices (BEIs)@ that is published by the American Conference of Governmental Industrial Hygienists (ACGIH) as the sole reference for determining which toxic gases must be disclosed under the County Ordinance.

***2. There are several hundred chemicals listed in the ACGIH publication, are all of these chemicals subject to the County Ordinance?***

No. Only the toxic chemical gases with a TLV-Time Weighted Average (TWA), TLV-Short Term Exposure Limit (STEL), or TLV-Ceiling (C) value of 10 parts per million (ppm) or less.

***3. Will the HMD provide a summary of the toxic gases that have a TLV-TWA, TLV-STEL, or TLV-C of 10 ppm or less?***

Yes. The HMD will provide a list of toxic gases with a TLV-TWA, TLV-STEL, or TLV-C of 10 ppm or less. The HMD will update their list whenever ACGIH revises their publication. HMD's current list is based on ACGIH's 1995-1996 publication.

***4. If a business has toxic compressed gases as inventory items below the State inventory disclosure amounts (i.e. 55 gallons, 500 pounds, 200 cubic feet), will the business be billed for these inventory items?***

Yes. A toxic compressed gas will be considered a billable item if it is required to be inventoried either due to the State inventory disclosure or the County Ordinance requirements.

## Toxic Gas $\ddot{E}$ Threshold Limit Values (TLVs) # 10 ppm

<u>GAS Chemical Name</u> <u>(Common Name)</u>	<u>CAS</u> <u>Registry</u>	<u>TWA</u> <u>ppm</u>	<u>STEL/Ceiling*</u> <u>ppm</u>	<u>Specific Volume</u> <u>ft<sup>3</sup>/lb at 70 °F</u>	<u>1/SV</u> <u>lb/ft<sup>3</sup></u>
Arsine	7784-42-1	0.05	na	5.0	0.2
Boron Trifluoride	7637-07-2	na	1*	5.7	0.175
Chlorine	7782-50-5	0.5	1	5.4	0.185
Chlorine Dioxide	10049-04-4	0.1	0.3	<	<
Chlorine Trifluoride	7790-91-2	na	0.1*	<	<
Chloropicrin	76-06-2	0.1	na	<	<
Cyanogen	460-19-5	10	na	<	<
Cyanogen Chloride	506-74-4	na	0.3*	<	<
Diborane	19287-45-7	0.1	na	13.73	0.073
Dichlorofluoromethane	75-43-4	10	na	<	<
Dimethylamine	121-69-7	5	15	8.6	0.116
Ethylamine	75-04-7	5	15	<	<
Ethylene Oxide	75-21-8	1	na	8.43	0.119
Fluorine	7782-41-4	1	2	10.2	0.098
Germanium Tetrahydride	7782-65-2	0.2	na	<	<
Hydrogen Bromide	10035-10-6	na	3*	4.8	0.208
Hydrogen Chloride	7647-01-0	na	5*	10.6	0.094
Hydrogen Cyanide	74-90-8	na	4.7*	14.23	0.070
Hydrogen Fluoride (as F)	7664-39-3	na	3*	19.3	0.052
Hydrogen Selenide	7783-07-5	0.05	na	4.74	0.211
Hydrogen Sulfide	7783-06-4	10	15	11.3	0.088
Ketene	463-51-4	0.5	1.5*	<	<
Methyl Bromide	74-83-9	5	na	4.1	0.244
Methylamine	74-89-5	5	15	<	<
Methyl Mercaptan	74-93-1	0.5	na	8.0	0.125
Nitrogen Dioxide	10102-44-0	3	5	4.7	0.213
Nitrogen Trifluoride	7783-54-2	10	na	<	<
Oxygen Difluoride	7783-41-7	na	0.05*	<	<
Ozone	10028-15-6	0.05	0.1*	8.01	0.125
Perchloryl Fluoride	7616-94-6	3	6	<	<
Phosgene	75-44-5	0.1	na	3.9	0.256
Phosphine	7803-51-2	0.3	1	11.4	0.088
Selenium Hexafluoride	7783-79-1	0.05	na	<	<
Silicon Tetrahydride (Silane)	7803-62-5	5	na	12.0	0.083
Stibine	7803-52-3	5	na	<	<
Sulfur Dioxide	7446-09-5	2	5	5.9	0.169
Sulfuryl Fluoride (Vikane)	2699-79-81	5	10	<	<
Trimethylamine	75-50-3	5	15	6.0	0.167
Vinyl Chloride	75-01-4	5	na	<	<

\* Indicates a ceiling value

Specific Volume is the volume occupied by 1 lb of gas at STP

-Specific volume values are provided for many gases by *Linde*.

-Values in brackets <> indicate that no literature value has been found, and the SV may be estimated using the Ideal Gas Law:  $PV=nRT$

where:  $P=1$  atm,  $n=454/MW$ ,  $R=0.082$  (l atm/mol K), and  $T= 295K$ , giving:

**Specific Volume =  $387.833/MW$  ft<sup>3</sup>/lb** where MW is the molecular weight of the gas, in g/mol.

-Example:

Hydrogen gas MW = 2.08 g/mol

this gives Specific Volume =  $387.833 / (2.08) = 186.5$  ft<sup>3</sup>/lb

The actual value, for comparison, is quite close to the Ideal Gas Law value: 192 ft<sup>3</sup>/lb.

**Reference:** 1995-1996 Threshold Limit Values (TLVs) for Chemical Substances and Physical Agents and Biological Exposure Indices (BELs), ACGIH

Permit #: \_\_\_\_\_

Date: \_\_\_\_\_

**SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH**  
**HAZARDOUS MATERIALS DIVISION**  
*Annual Carcinogen and Reproductive Toxin Reporting List*

Business Name: \_\_\_\_\_

Business Address: \_\_\_\_\_

Business Owner or Operator: \_\_\_\_\_

Please complete the following by entering the chemical name in the chemical name column and then place a check ✓ in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check ✓ in the <1-gallon column.

**(PLEASE NOTE: the symbol < means less than).**

Chemical Name	<1 gallon	<1 pound	<10 gallons	<10 pounds	<55 gallons	<500 pounds	Trade Secret



Chemical Name	<1 gallon	<1 pound	<10 gallons	<10 pounds	<55 gallons	<500 pounds	Trade Secret